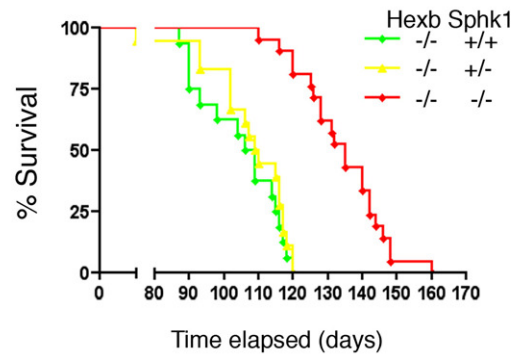
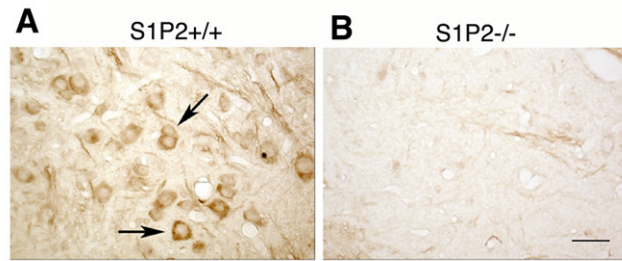


## Supplemental Figure 1



**Figure 1.** Kaplan-Meier curves of the survival of *Hexb*<sup>-/-</sup>*Sphk1*<sup>-/-</sup> mice on Sv129/C56BL6 mixed background (n = 25) compared with *Hexb*<sup>-/-</sup>*Sphk1*<sup>+/-</sup> mice (n = 25) and *Hexb*<sup>-/-</sup>*Sphk1*<sup>+/+</sup> mice (n = 25) ( $p < 0.0001$ , log-rank test).

## Supplemental Figure 2



**Figure 2.** Localization of S1P<sub>2</sub> receptor expression in spinal cord. Spinal cord sections from *S1P<sub>2</sub><sup>+/+</sup>* (A) and *S1P<sub>2</sub><sup>-/-</sup>* (B) mice at 16 weeks of age were stained with antibody against S1P<sub>2</sub> and processed for immunohistochemical detection. Arrows indicate the ventral horn neurons. Scale bars, 100  $\mu$ m.